MARKARIAN, Nikita

IRMA, University of Strasbourg

Email: nikita.markarian@gmail.com   Web: `https://irma.math.unistra.fr/~markarian/`

Research interests

Algebraic geometry, algebraic topology, multiple zeta values, factorization homology, operads.

Current position

2024–present: University of Strasbourg, invited researcher, laureate of the PAUSE program

Previous positions

2023–2024: Visiting researcher, Max Planck Institute for Mathematics, Bonn, Germany

2010–2022: Associate Professor / Research Fellow,
Laboratory of Algebraic Geometry and its Applications,
Faculty of Mathematics, Higher School of Economics, Moscow, Russia

2007–2008: Postdoctoral researcher,
École Normale Supérieure, Paris, France

2005–2006: Research Associate,
Department of Mathematics, University of Sheffield, UK

2000–2001: Visiting researcher,
Max Planck Institute for Mathematics, Bonn, Germany

1998–2023: Visiting researcher (multiple stays),
IHES (Bures-sur-Yvette), ICTP (Trieste), University of Angers,
University of Montpellier, University of Strasbourg

Education

1999: PhD in Mathematics, Steklov Institute of Mathematics, Moscow. Advisor: V. A Vassiliev

2024: Defense of accreditation to supervise research (HDR), University of Strasbourg

Selected publications

- **N. Markarian**, *On generalized stuffle relations between cell-zeta values*, *Communications in Number Theory and Physics* **17** (2023), 63–76.
- **N. Markarian**, *Weyl n-algebras*, *Communications in Mathematical Physics* **350** (2017), 421–442.
- **N. Markarian**, *The Atiyah class, Hochschild cohomology and the Riemann–Roch theorem*, *Journal of the London Mathematical Society* **79** (2009), 129–143.

Teaching experience

Faculty of Mathematics, Higher School of Economics (HSE), Moscow, 2010–2022

- *Lectures*: Homological Algebra; Sheaf Theory; Geometry I
- *Tutorials*: Algebra; Geometry; Topology; Algebraic Geometry; Functional Analysis; Dynamical Systems; Differential Equations; Algebraic Topology; Complex Analysis; Linear Programming
- *Advanced courses and seminars*: Goresky–MacPherson Cohomology; Homological Methods in Mathematical Physics; Introduction to Seiberg–Witten Invariants
- *Supervision*: Bachelor theses (topics in Poisson geometry and algebra)

University of Strasbourg, 2025-2026

- *Tutorials*: Probability and Statistics
- *Lectures*: Poisson Structures

Expertise and evaluation activities:

Member of PhD thesis jury:

- A. Kalugin (University of Luxembourg, 2021);
- G. Kondyrev (HSE, 2022)

Thesis report:

- S. Bach, *Formes quadratiques décalées et déformations*, under the supervision of D. Calaque and B. Toën, University of Montpellier, defended June 28, 2017.

Administrative and service activities

- Co-organizer of research seminars in algebra and homotopy theory at HSE (2011–2016)
- Organizer of student mathematical olympiads at HSE (2017–2022)
- Referee for International Journal of Mathematics, Selecta Mathematica, Communications in Mathematical Physics, Forum Mathematicum, Proceedings of Symposia in Pure Mathematics, Journal of Symplectic Geometry.